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- a terminal complex while not in passenger service. In these circumstances, a Class II brake test shall be performed prior to the train's departure from the terminal complex with passengers;
- (2) Prior to the first morning departure of each commuter or short-distance intercity passenger train where a Class I brake test remains valid as provided in §238.315(a)(1);
- (3) When previously tested units (i.e., cars that received a Class I brake test within the previous calendar day and have not been disconnected from a source of compressed air for more than four hours) are added to the train;
- (4) When cars or equipment are removed from the train; and
- (5) When an operator first takes charge of the train, except for face-to-face relief.
- (b) A Class II brake test shall be performed by a qualified person or a qualified maintenance person.
- (c) Except as provided in §238.15, a railroad shall not use or haul a passenger train in passenger service from a terminal or yard where a Class II brake test has been performed, or was required by this part to have been performed, with any of the brakes cut-out, inoperative, or defective.
- (d) In performing a Class II brake test on a train, a railroad shall determine that:
- (1) The brakes on the rear unit of the train apply and release in response to a signal from the engineer's brake valve or controller of the leading or controlling unit, or a gauge located at the rear of the train or in the cab of the rear unit indicates that brake pipe pressure changes are properly communicated at the rear of the train;
- (2) On MU equipment, the emergency brake application and deadman pedal or other emergency control devices function as intended; and
- (3) The communicating signal system is tested and known to be operating as intended.

§238.319 Running brake test.

(a) As soon as conditions safely permit, a running brake test shall be performed on each passenger train after the train has received, or was required under this part to have received, either

- a Class I, Class IA, or Class II brake test.
- (b) A running brake test shall be performed whenever the control stand used to control the train is changed to facilitate the movement of a passenger train from one track to another within a terminal complex while not in passenger service.
- (c) The running brake test shall be conducted in accordance with the railroad's established operating rules, and shall be made by applying brakes in a manner that allows the engineer to ascertain whether the brakes are operating properly.
- (d) If the engineer determines that the brakes are not operating properly, the engineer shall stop the train and follow the procedures provided in §238.15.

Subpart E—Specific Requirements for Tier II Passenger Equipment

§238.401 Scope.

This subpart contains specific requirements for railroad passenger equipment operating at speeds exceeding 125 mph but not exceeding 150 mph. The requirements of this subpart apply beginning on September 9, 1999. As stated in §238.433(b), all such passenger equipment remains subject to the requirements concerning couplers and uncoupling devices contained in Federal statute at 49 U.S.C. chapter 203 and in FRA regulations at part 231 and §232.2 of this chapter.

§ 238.403 Crash energy management.

- (a) Each power car and trailer car shall be designed with a crash energy management system to dissipate kinetic energy during a collision. The crash energy management system shall provide a controlled deformation and collapse of designated sections within the unoccupied volumes to absorb collision energy and to reduce the decelerations on passengers and crewmembers resulting from dynamic forces transmitted to occupied volumes.
- (b) The design of each unit shall consist of an occupied volume located between two normally unoccupied volumes. Where practical, sections within